PTO/SB/05 (01-04)

Approved for use through 07/31/2006. OMB 0651-0032 U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of Information unless it displays a valid OMB control number. 1620P01US01 Attorney Docket No. UTILITY PATENT APPLICATION Bruno GIAMMARIA First Inventor TRANSMITTAL HOT WATER CIRCULATING .. Title (Only for new nonprovisional applications under 37 CFR 1.53(b)) Express Mail Label No. Mail Stop Patent Application APPLICATION ELEMENTS Commissioner for Patents ADDRESS TO: P.O. Box 1450 See MPEP chapter 600 concerning utility patent application contents. Alexandria VA 22313-1450 1. Fee Transmittal Form (e.g., PTO/SB/17) CD-ROM or CD-R in duplicate, large table or (Submit an original and a duplicate for fee processing) Computer Program (Appendix) Applicant claims small entity status. 8. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) 3. 🗹 Specification [Total Pages_ Computer Readable Form (CRF) (preferred arrangement set forth below) - Descriptive title of the invention Specification Sequence Listing on: Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D CD-ROM or CD-R (2 copies); or - Reference to sequence listing, a table, or a computer program listing appendix Paper - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) c. Statements verifying identity of above copies - Detailed Description ACCOMPANYING APPLICATION PARTS - Claim(s) - Abstract of the Disclosure 9. Assignment Papers (cover sheet & document(s)) 4. Drawing(s) (35 U.S.C. 113) [Total Sheets _ Power of 10. 37 CFR 3.73(b) Statement (when there is an assignee) Attorney 5. Oath or Declaration [Total Sheets English Translation Document (if applicable) a. Newly executed (original or copy) Information Disclosure Copies of IDS 12. Statement (IDS)/PTO-1449 Citations b. Copy from a prior application (37 CFR 1.63(d)) 13. Preliminary Amendment (for continuation/divisional with Box 18 completed) Return Receipt Postcard (MPEP 503) (Should be specifically itemized) **DELETION OF INVENTOR(S)** Certified Copy of Priority Document(s) Signed statement attached deleting inventor(s) (if foreign priority is claimed) name in the prior application, see 37 CFR 16. I Nonpublication Request under 35 U.S.C. 122 1.63(d)(2) and 1.33(b). (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 6. Application Data Sheet. See 37 CFR 1.76 17. Other: 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.: Prior application information: Examiner Art Unit: For CONTINUATION OR DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been Inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS v 20779 Customer Number: Correspondence address below Name Address City Zip Code State Country Telephone Name (Print/Type) Registration No. (Attorney/Agent) | 28,170

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date

8104

Robert A. Wilkes

Signature

Name (Print/Type)

Robert A. Wilkes

PTO/SB/17 (10-03)
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| FEE TRANSMITTAL | | Complete if Known | | | |
|---|-------------|----------------------|-----------------|--|---|
| | | Application Number | | | - |
| for FY 2004 | | Filing Date | | | |
| Effective 10/01/2003. Patent fees are | ZUUT | First Named Inventor | Bruno GIAMMARIA | | |
| Applicant claims small entity status. See 37 CFR 1.27 | | Examiner Name | | | |
| | | Art Unit | | | |
| TOTAL AMOUNT OF PAYMENT | (\$) 385.00 | Attorney Docket No. | 1620P01US01 | | |
| METHOD OF DAVIMENT | | | | | |

| METHOD OF PAYMENT (check all that apply) | FEE CALCULATION (continued) | | | | | |
|---|-----------------------------|---|--|--|--|--|
| Check Credit card Money Other None | 3. ADDITIONAL FEES | | | | | |
| ✓ Deposit Account: | Large Entity | Small Entity | | | | |
| Denneit | | Fee Fee Fee Description | | | | |
| Account 16-0600 | | Fee Paid | | | | |
| Deposit CLIA DIDO: COLUEN | | 2051 65 Surcharge - late filing fee or oath 2052 25 Surcharge - late provisional filing fee or | | | | |
| Account SHAPINO COHEN Name | | cover sheet | | | | |
| The Director is authorized to: (check all that apply) | | 1053 130 Non-English specification | | | | |
| Charge fee(s) indicated below Credit any overpayments | | 1812 2,520 For filing a request for ex parte reexamination | | | | |
| Charge any additional fee(s) or any underpayment of fee(s) | 1804 920 | 1804 920° Requesting publication of SIR prior to Examiner action | | | | |
| Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account. | 1805 1,840* | 1805 1,840* Requesting publication of SIR after Examiner action | | | | |
| FEE CALCULATION | 1251 110 | 2251 55 Extension for reply within first month | | | | |
| 1. BASIC FILING FEE | 1252 420 | 2252 210 Extension for reply within second month | | | | |
| Large Entity Small Entity | 1253 950 | 2253 475 Extension for reply within third month | | | | |
| Fee Fee Fee Fee Description Fee Paid Code (\$) | 1254 1,480 | 2254 740 Extension for reply within fourth month | | | | |
| 1001 770 2001 385 Utility filing for | 1255 2,010 | 2255 1,005 Extension for reply within fifth month | | | | |
| 1002 340 2002 170 Design filing fee \$385.00 | 1401 330 | 2401 165 Notice of Appeal | | | | |
| 1003 530 2003 265 Plant filing fee | 1402 330 | 2402 165 Filing a brief in support of an appeal | | | | |
| 1004 770 2004 385 Reissue filing fee | 1403 290 | 2403 145 Request for oral hearing | | | | |
| 1005 160 2005 80 Provisional filing fee | 1451 1,510 | 1451 1,510 Petition to institute a public use proceeding | | | | |
| SUBTOTAL (1) (\$) 385.00 | 1452 110 | 2452 55 Petition to revive - unavoidable | | | | |
| | 1453 1,330 | 2453 665 Petition to revive - unintentional | | | | |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE | 1501 1,330 | 2501 665 Utility issue fee (or reissue) | | | | |
| Extra Claims below Fee Paid | 1502 480 | 2502 240 Design issue fee | | | | |
| Independent | 1503 640 | 2503 320 Plant issue fee | | | | |
| Claims 1 -3** = X = X = Multiple Dependent | 1460 - 130 | 1460 130 Petitions to the Commissioner | | | | |
| | 1807 50 | 1807 50 Processing fee under 37 CFR 1.17(q) | | | | |
| Large Entity Small Entity Fee Fee Fee Fee Fee Description | 1806 180 | 1806 180 Submission of Information Disclosure Stmt | | | | |
| Code (\$) Code (\$) | 8021 40 | 8021 40 Recording each patent assignment per property (times number of properties) | | | | |
| 1202 18 2202 9 Claims in excess of 20 | 1809. 770 | 2809 385 Filing a submission after final rejection | | | | |
| 1201 86 2201 43 Independent claims in excess of 3 | | (37 CFR 1.129(a)) | | | | |
| 1203 290 2203 145 Multiple dependent claim, if not paid 1204 86 2204 43 ** Reissue independent claims | 1810 770 | 2810 385 For each additional invention to be examined (37 CFR 1.129(b)) | | | | |
| over original patent | 1801 770 | 2801 385 Request for Continued Examination (RCE) | | | | |
| 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent | 1802 900 | 1802 900 Request for expedited examination of a design application | | | | |
| SUBTOTAL (2) (\$) | Other fee (specify) | | | | | |
| **Tor number previously paid, if greater, For Reissues, see above *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) | | | | | | |
| SUBMITTED BY (Complete (# applicable)) | | | | | | |

Signature WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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Registration No.

(Attorney/Agent)

28,170

Telephone 613-232-5300